

# MECHANIC STUDY GUIDE

## Recreational Trailer

### Michigan Motor Vehicle Mechanic

Listed below are a number of items and subjects which make up the mechanic certification tests identified above. An individual's ability to pass the certification test will depend upon the amount of knowledge the person has concerning these items:

#### **Electrical Diagnosis - 36%**

Trailer tail lamps  
Ground wire problems  
Turn signal circuits  
Determine voltage drop  
Trailer stop lamps  
Brake controllers  
4-Wire connectors  
Current supply for trailer brakes  
Electrical symbols  
Flasher diagnosis  
Color codes  
Causes of blown fuses  
Current flow/resistance

#### **Brake Diagnosis - 26%**

Loss of brakes  
Grabby brakes  
Dragging brakes  
Erratic braking, surging  
Pull to one side during braking  
Adjusting trailer brakes  
Brake shoe recognition

#### **Springs/Hitches - 16%**

Leaf springs  
Equalizing hitches  
Adjustment of hitches  
Types of trailer springs  
Spring maintenance

#### **General Knowledge - 12%**

Surge brakes  
Reducing sway  
Wheel bearing adjustment  
Hydraulic brake lines  
Metric measurements  
Tire wear diagnosis

#### **Wheels/Hubs - 10%**

Wheel bearing diagnosis  
Wheel bolt torquing pattern

#### **SAMPLE QUESTION:**

Current flow resistance is decreased when:

- A. Wire length is increased.
- B. Wire diameter is decreased.
- C. Corroded terminals are replaced.
- D. All of the above.

**ANSWER: C**